

IGS Data Center Working Group

Report for 26th IGS Governing Board Meeting
April 24, 2005

The data center position paper presented at the March 2004 IGS Workshop highlighted internal issues such as reducing data latency and handling replacement of data and product files. Although recommendations were generated concerning these items, resolution within the WG has not been forthcoming. We hope to continue dialog on these issues in the future and answer the workshop recommendations.

The IGS welcomed a new Global Data Center, the fourth, located at the Korea Astronomy and Space Science Institute (KASI) in Daejeon South Korea. The GDC, headed by Dr. Jong-Uk (James) Park, is now in a test phase of operation through December 2005 with operational activities to start in 2006. The data center's web and ftp sites can be found at <http://gdc.kasi.re.kr/index.asp>. C. Noll forwarded the names of several regional contacts (Geoscience Australia, NGI in Korea, JAXA and NICT in Japan) to KASI to start direct routing of data from these sources to the new GDC. Tests of this revised data flow are currently underway.

Tests of real-time data flow between NRCAN and the CDDIS began in April 2005. Statistics will be reported at the IGS Focus Area Review on April 23. It is expected to expand the tests to include data from GFZ and Geoscience Australia in the near future. If successful, the real-time 1 Hz data would be archived at the CDDIS and could eventually replace the transfer of 15-minute high-rate data files from these sources. The real-time data transfer of high-rate data may then be expanded to other data centers.

Preliminary discussions were held through email concerning the current data compression format utilized by the IGS for both data and product files. The working group will investigate other compression software (e.g., ZIP/GZIP, BZIP2, etc.). This testing would include magnitude of the size reduction and other features offered by other compression software such as consistency checking, compatibility across platforms, etc. The working group will thoroughly test various options before making any recommendations (if any).

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